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| APPLICATION NO.                       | FILING DATE     | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.     | ATTORNEY DOCKET NO. CONFIRMATION NO. |  |  |
|---------------------------------------|-----------------|----------------------|-------------------------|--------------------------------------|--|--|
| 10/787,039                            | 02/26/2004      | Carl James Sukeforth | 4424                    |                                      |  |  |
| 26596                                 | 7590 04/19/2005 |                      | EXAMINER                |                                      |  |  |
| CARL JAMES SUKEFORTH                  |                 |                      | PATEL, \                | PATEL, VINOD D                       |  |  |
| 5 GOODWIN ROAD<br>LEXINGTON, MA 02420 |                 |                      | ART UNIT                | PAPER NUMBER                         |  |  |
| ZEMINOTO:                             |                 |                      | 3742                    |                                      |  |  |
|                                       |                 | •                    | DATE MAIL ED. 04/10/200 | •                                    |  |  |

Please find below and/or attached an Office communication concerning this application or proceeding.

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| Office Action Summary                               |  | Application No.   |   | Applicant(s)   |              |  |  |
|---|--|---|---|--|--------------|--|--|
|   |  | 10/787,039  |   | SUKEFORTH, CARL  | JAMES        |  |  |
|   |  | Examiner  |   | Art Unit   |              |  |  |
|   |  | Vinod D. Patel  |   | 3742   |              |  |  |
| Period fo   | The MAILING DATE of this communication app<br>or Reply   | ears on the cover s   | sheet with the co   | orrespondence addre  | ess          |  |  |
| THE I - External after - If the - If NO - Failu Any | ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b). | 66(a). In no event, however<br>within the statutory minim<br>ill apply and will expire SI<br>cause the application to b | er, may a reply be time<br>num of thirty (30) days<br>X (6) MONTHS from the<br>Decome ABANDONED | ely filed will be considered timely. ne mailing date of this comn (35 U.S.C. § 133). | nunication.  |  |  |
| Status  |  |   |   |  |              |  |  |
| 1)🖂   | Responsive to communication(s) filed on 28 Fe  | bruary 2004.  |   |  |              |  |  |
| 2a) <u></u> □                                       | This action is <b>FINAL</b> . 2b)⊠ This  | action is non-final   |   |  |              |  |  |
| 3)□   | Since this application is in condition for allowan   | ce except for form  | nal matters, pros   | secution as to the m   | nerits is    |  |  |
|   | closed in accordance with the practice under E   | x parte Quayle, 19  | 935 C.D. 11, 453  | 3 O.G. 213.  |              |  |  |
| Dispositi   | on of Claims   |   |   |  |              |  |  |
| 4)⊠   | Claim(s) <u>1-4</u> is/are pending in the application.   |   |   |  |              |  |  |
|   | 4a) Of the above claim(s) is/are withdrawn from consideration.   |   |   |  |              |  |  |
| 5)  | Claim(s) is/are allowed.   |   |   |  |              |  |  |
| 6)⊠   | Claim(s) <u>1-4</u> is/are rejected.   | •   |   |  |              |  |  |
| 7)  | Claim(s) is/are objected to.   |   |   |  |              |  |  |
| 8)□   | Claim(s) are subject to restriction and/or   | election requirem   | ient.   |  |              |  |  |
| Applicati   | on Papers  |   |   |  |              |  |  |
| 9)⊠   | The specification is objected to by the Examiner   |   |   |  |              |  |  |
| · ·   | The drawing(s) filed on is/are: a) acce  |   | cted to by the E  | xaminer.   |              |  |  |
|   | Applicant may not request that any objection to the o  |   |   |  |              |  |  |
|   | Replacement drawing sheet(s) including the correction  | on is required if the   | drawing(s) is obje  | cted to. See 37 CFR  | 1.121(d).    |  |  |
| 11)   | The oath or declaration is objected to by the Exa  | aminer. Note the a  | attached Office A   | Action or form PTO-  | 152.         |  |  |
| Priority u  | nder 35 U.S.C. § 119   |   | •   |  |              |  |  |
| a)[   | Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the priori application from the International Bureau ee the attached detailed Office action for a list of   | have been receive<br>have been receive<br>ty documents have<br>(PCT Rule 17.2(a   | red.<br>red in Applicatio<br>re been received<br>a)).   | n No<br>I in this National Sta   | age          |  |  |
| Attachment  | (s)  |   |   |  |              |  |  |
|   | e of References Cited (PTO-892)  | 4) 🔲 In   | terview Summary (F  | PTO-413)   |              |  |  |
| 2) 🔲 Notice   | e of Draftsperson's Patent Drawing Review (PTO-948)  | Pa  | aper No(s)/Mail Date  | э  | <b>:</b> 2)  |  |  |
|   | nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date   |   | ther:   | tent Application (PTO-15   | ) <b>2</b> ) |  |  |

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#### DETAILED OFFICE ACTION

## **INTRODUCTION**

1. This application/control number 10/787,039 has been examined. This is the first action on the merits of the claimed invention. The application has claims 1-4 pending.

#### Information Disclosure Statement

2. The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609 A(1) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered. Applicant must provide all the references except U.S. Patents.

#### Drawings

3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: reference character 8 SHOWN IN figure 4 but not described in the specification. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will

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be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

4. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the means of magnetic force and the heating of the blade by induction as claimed in the claim 1 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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### Specification

5. The disclosure is objected to because of the following informalities: specification does not provide support or antecedent bases for "means of magnetic force" (recited in claim 1), the "addition of desiccant" (recited in claim3) and the "DI water" (recited in claim4).

Appropriate correction is required.

6. The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

## Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC (See 37 CFR 1.52(e)(5) and MPEP 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text are permitted to be submitted on compact discs.) or

REFERENCE TO A "MICROFICHE APPENDIX" (See MPEP § 608.05(a).

- "Microfiche Appendices" were accepted by the Office until March 1, 2001.)
- (e) BACKGROUND OF THE INVENTION.
  - (1) Field of the Invention.
  - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (f) BRIEF SUMMARY OF THE INVENTION.
- (g) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (h) DETAILED DESCRIPTION OF THE INVENTION.
- (i) CLAIM OR CLAIMS (commencing on a separate sheet).
- (i) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (k) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino

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acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

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#### Content of Specification

- (a) <u>Title of the Invention</u>: See 37 CFR 1.72(a) and MPEP § 606. The title of the invention should be placed at the top of the first page of the specification unless the title is provided in an application data sheet. The title of the invention should be brief but technically accurate and descriptive, preferably from two to seven words may not contain more than 500 characters.
- (b) Cross-References to Related Applications: See 37 CFR 1.78 and MPEP § 201.11.
- (c) <u>Statement Regarding Federally Sponsored Research and Development</u>: See MPEP § 310.
- (d) <u>Incorporation-By-Reference Of Material Submitted On a Compact Disc:</u> The specification is required to include an incorporation-by-reference of electronic documents that are to become part of the permanent United States Patent and Trademark Office records in the file of a patent application. See 37 CFR 1.52(e) and MPEP § 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text were permitted as electronic documents on compact discs beginning on September 8, 2000.

Or alternatively, <u>Reference to a "Microfiche Appendix"</u>: See MPEP § 608.05(a). "Microfiche Appendices" were accepted by the Office until March 1, 2001.

- (e) <u>Background of the Invention</u>: See MPEP § 608.01(c). The specification should set forth the Background of the Invention in two parts:
  - (1) <u>Field of the Invention</u>: A statement of the field of art to which the invention pertains. This statement may include a paraphrasing of the applicable U.S. patent classification definitions of the subject matter of the claimed invention. This item may also be titled "Technical Field."
  - (2) Description of the Related Art including information disclosed under 37

    CFR 1.97 and 37 CFR 1.98: A description of the related art known to the applicant and including, if applicable, references to specific related art and problems involved in the prior art which are solved by the applicant's invention. This item may also be titled "Background Art."
- (f) <u>Brief Summary of the Invention</u>: See MPEP § 608.01(d). A brief summary or general statement of the invention as set forth in 37 CFR 1.73. The summary is

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separate and distinct from the abstract and is directed toward the invention rather than the disclosure as a whole. The summary may point out the advantages of the invention or how it solves problems previously existent in the prior art (and preferably indicated in the Background of the Invention). In chemical cases it should point out in general terms the utility of the invention. If possible, the nature and gist of the invention or the inventive concept should be set forth. Objects of the invention should be treated briefly and only to the extent that they contribute to an understanding of the invention.

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- (g) <u>Brief Description of the Several Views of the Drawing(s)</u>: See MPEP § 608.01(f). A reference to and brief description of the drawing(s) as set forth in 37 CFR 1.74.
- (h) Detailed Description of the Invention: See MPEP § 608.01(g). A description of the preferred embodiment(s) of the invention as required in 37 CFR 1.71. The description should be as short and specific as is necessary to describe the invention adequately and accurately. Where elements or groups of elements, compounds, and processes, which are conventional and generally widely known in the field of the invention described and their exact nature or type is not necessary for an understanding and use of the invention by a person skilled in the art, they should not be described in detail. However, where particularly complicated subject matter is involved or where the elements, compounds, or processes may not be commonly or widely known in the field, the specification should refer to another patent or readily available publication which adequately describes the subject matter.
- (i) Claim or Claims: See 37 CFR 1.75 and MPEP § 608.01(m). The claim or claims must commence on separate sheet or electronic page (37 CFR 1.52(b)(3)). Where a claim sets forth a plurality of elements or steps, each element or step of the claim should be separated by a line indentation. There may be plural indentations to further segregate subcombinations or related steps. See 37 CFR 1.75 and MPEP § 608.01(i)-(p).
- (j) Abstract of the Disclosure: See MPEP § 608.01(f). A brief narrative of the disclosure as a whole in a single paragraph of 150 words or less commencing on a separate sheet following the claims. In an international application which has entered the national stage (37 CFR 1.491(b)), the applicant need not submit an abstract commencing on a separate sheet if an abstract was published with the international application under PCT Article 21. The abstract that appears on the cover page of the pamphlet published by the International Bureau (IB) of the World Intellectual Property Organization (WIPO) is the abstract that will be used by the USPTO. See MPEP § 1893.03(e).
- (k) <u>Sequence Listing.</u> See 37 CFR 1.821-1.825 and MPEP §§ 2421-2431. The requirement for a sequence listing applies to all sequences disclosed in a given application, whether the sequences are claimed or not. See MPEP § 2421.02.

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## Claim Rejections - 35 USC § 112

- 7. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 8. Claims 1-4 are rejected as failing to define the invention in the manner required by 35 U.S.C. 112, second paragraph.

The claim(s) are narrative in form and replete with indefinite and functional or operational language. The structure which goes to make up the device must be clearly and positively specified. The structure must be organized and correlated in such a manner as to present a complete operative device. The claim(s) must be in one sentence form only. Note the format of the claims in the patent(s) cited. For example in claim 1, it must be a single sentence form, therefore the period in line 5 must be replaced with a comma, a comma may be also inserted after "element". There is insufficient antecedent basis for "said device" recited at line 2, "said heating elements" recited at line 5 in the claim 1. In the claim 4, clarification for term "DI", antecedent bases for "the heating apparatus" must be provided.

9. Claims 1-4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 1 & 3, the phrase "such as" renders the claim indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention. See MPEP \$ 2173.05(d).

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## Claim Rejections - 35 USC § 102

10. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 11. Claims 1 is rejected under 35 U.S.C. 102(a) as being anticipated by Patrick (US6836966).

Patrick discloses an electric apparatus (10) in conjunction with blade (20a, 20b) cutting edges comprising a housing (14) with an integrated electrical resistance heating element (26a, 26b) a cradle (12) in the housing with a configuration to hold a cutting blade (20a, 20b) in proximity to the heating elements (26a, 26b), a configuration that allows for heating of the blade by means of gravitational force (i.e. as the blade being snapped into the head portion, it would be remained there on, even when the whole device being held upside down, it is inherency.

12. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 13. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Schatt (US5973294).

Schatt discloses an electric apparatus (10) in conjunction with blade (20) cutting edges comprising a housing (11) with an integrated electrical resistance heating element (43) a cradle (22) in the housing with a configuration or enlarged upper head portion to hold the cutting blade (20) in proximity to the heating elements (43) where the heating element (43) is arranged to have a configuration that allows for heating of the blade by means of gravitational force (i.e. as the

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blade being snapped into the head portion, it would be remained there on, even when the whole device being held upside down, it is inherency.

14. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Kozikowski (US5394777).

Kozikowski discloses an electric apparatus (10) in conjunction with blade (22a, 22b) cutting edges comprising a housing (12) with an integrated electrical resistance heating element (54), a cradle (14) in the housing (i.e. go from configuration shown in Fig. 2 to configuration shown in Fig. 1) with a configuration to hold the cutting blade (22a, 22b) in proximity to the heating elements (54), a configuration or air passageway (26) that allows for heating of the blade by means of combination of conduction, convection and radiation.

15. Claim 2 is rejected under 35 U.S.C. 102(b) as being anticipated by Duggan (US3736243).

Duggan discloses a cutting blade (11) in a close proximity a heat source (2) to raise the temperature of the blade and eliminate contact water through evaporation and thereby inhibiting the formation of iron oxide and hydrated iron oxide, rust and further inhibit corrosion during storage of a blade by inhibiting condensation of water onto the blade by continuously heating and maintaining the proximate water vapor above its saturation temperature.

#### Claim Rejections - 35 USC § 103

- 16. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

17. Claims 3-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Duggan (US3736243) in view of Blackman (US4177365).

The cited prior art does not disclose the addition of a desiccant, such as calcium oxide or silica gel is used to enhance the redudion of water vapor in proximity of the cutting blades and the blade is rinsed in DI water prior to being place in the heating apparatus in order to inhibit build-up of salts deposits and possible subsequent salt corrosion due to use of hard tap water.

Blackman discloses moisture reducer for use in heated and vented container including electrical contacts comprising (a low cost and easy to handle) a desiccant (52) such as silica gels, calcium oxide placed within the receptacle (40) to control the moisture in the distributor (column 2, lines 5-15).

It would have been obvious to one of ordinary skill in the art to use a desiccant (52) such as silica gels, calcium oxide as taught by Blackman for the blade of Duggan (US3736243) to reduce the moisture economically.

Use of DI water is well known in the art since DI water is free from minerals, salt etc, corrosion to the metal can be prevented by using distilled water. It would have been obvious to one of ordinary skill in the art at the time of invention to use distilled water to reduce corrosion to the blade.

18. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The art should be both separately considered and considered in conjunction with the previously cited art when responding to this action. Bohmer (US6817101) relates to hot blade razor, Duggan (US3736243) relates to corrosion projected razor blade, Iderosa (US5065515) relates to thermally assisted shaving system, Hunt (US2622319) relates to an electric heat shaver.

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19. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vinod D. Patel whose telephone number is 571-272-4785. The examiner can normally be reached on 7.30 A.M. TO 4.00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans can be reached on 571-272-4777. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

VP

Tu Ba Hoang

Vinod Patel

Patent Examiner Art Unit 3742